

Form PTO-1449 (modified)

JUN 12 2000

App. Docket No.

~~UHC-013/PAR~~

Serial No.

~~08/479,722~~

09/592,685

List of Patents and Publications for Applicant

Applicant

Jeffrey Bonadio and Wushan Yin

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

June 7, 1995

Group:

1804 1647

U.S. Patent Documents

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Foreign Patent Documents

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AR	C93	Ando, <i>et al.</i> , "Localization of Transforming Growth Factor- β and Latent Transforming Growth Factor- β Binding Protein in Rat Kidney," <i>Kidney International</i> 47:733-739, 1995.
	C94	Chaudhry, <i>et al.</i> , "Expression of Transforming Growth Factors Beta 1, Beta 2, Beta 3 in Neuroendocrine Tumors of the Digestive System," <i>Anticancer Res</i> 14(5B):2085-91, 1994 (Abstract)
	C95	Colosetti, <i>et al.</i> , "Axotomy of Rat Facial Nerve Induces TGF- β and Latent TGF- β Binding Protein," <i>Brain Research Bulletin</i> 37(6):561-67, 1995.
	C96	Dallas, <i>et al.</i> , "Characterization and Autoregulation of Latent Transforming Growth Factor β (TGF β) Complexes in Osteoblast-like Cell Lines," <i>The Journal of Biological Chemistry</i> , 269(9):6815-22, 1994.
	C97	Eklöv, <i>et al.</i> , "Lack of the Latent Transforming Growth Factor β Binding Protein in Malignant, but not Benign Prostatic Tissue," <i>Cancer Research</i> , 53:3193-97, 1993.
	C98	Flaumenhaft, "Extracellular Regulation of Basic Fibroblast Growth Factor and Transforming Growth Factor-Beta Activity," <i>Dissertation Abstracts International</i> , 53(3):1340B, 1992. (abstract)
AR	C99	Kogawa <i>et al.</i> , "[TGF-beta and Platelet]", <i>Rinsho Ketsueki</i> , 35(4):370-5, 1994 (abstract)

EXAMINER: *James R. Jones*

DATE CONSIDERED:

8/11/92

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AR	C100	Koli, "Growth-Inhibitory Effects of Transforming Growth Factor-beta and 1,25-dihydroxyvitamin D(3) on Cultured Epithelial Cells: Relationships to Plasminogen Activation," <i>Diss. Abstr. Int.</i> , 56(3):629, 1995.
	C101	Li, <i>et al.</i> , "Mapping of Human and Murine Genes for Latent TGF- β Binding Protein-2 (LTBP2)," <i>Mammalian Genome</i> 6:42-45, 1995.
	C102	Maeda, <i>et al.</i> , "Local Production and Localization of Transforming Growth Factor-beta in Tuberculous Pleurisy," <i>Clin. Exp. Immunol.</i> , 92:32-38, 1993.
	C103	Miyazono, <i>et al.</i> , "Structure and Function of Latent Forms of Transforming Growth Factor-beta (Meeting abstract)," <i>Seventh International Conference of the International Society of Differentiation, Cellular Programmes for Growth Differentiation and Neoplasia</i> , (1992):58, 1992.
	C104	Mizoi, <i>et al.</i> , "Immunohistochemical Identification of Transforming Growth Factor-beta and Its Binding Protein in Human Gastrointestinal Carcinoma," <i>Tojoku J. Exp. Med.</i> , 168(2):271-3, 1992. (abstract)
	C105	Mizoi, <i>et al.</i> , "Immunoelectron Microscopic Localization of Transforming Growth Factor α and Latent Transforming Growth Factor β_1 Binding Protein in Human Gastrointestinal Carcinomas: Qualitative Difference Between Cancer Cells and Stromal Cells," <i>Cancer Research</i> , 53:183-190, 1993.
	C106	Rifkin, "TGF- β Formation: Mechanisms and Consequences," <i>J. Cellular Biochem. Suppl.</i> 19B, 3, 1995.
	C107	Taipale, <i>et al.</i> , "Control of TGF-beta 1, Its Latent Form Binding Protein (LTBP) and Type II Receptor Expression During Differentiation of Human Myeloid Leukemia Cells Lines (Meeting Abstract)," <i>EACR-12: 12th Biennial Meeting of the European Association for Cancer Research</i> , 1993.
	C108	Tamaki <i>et al.</i> , "TGF- β 1 in Glomerulosclerosis and Interstitial Fibrosis of Adriamycin Nephropathy," <i>Kidney International</i> , 45:525-36, 1994.
AR	C109	Van Laethem, <i>et al.</i> , "Localization of Transforming Growth Factor β 1 and Its Latent Binding Protein in Human Chronic Pancreatitis," <i>Gastroenterology</i> 108:1873-81, 1995.

EXAMINER: *Donald Roman*

DATE CONSIDERED:

6/11/2

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

Atty. Docket No.
UMIC:002/PARSerial No.
08/479,722

List of Patents and Publications for Applicant's

Applicant
Jeffrey Bonadio and Wushan Yin

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

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1804U.S. Patent Documents
See Page 1Foreign Patent Documents
See Page 1Other Art
See Page 1-3

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
AR	C110	Vilafranca, <i>et al.</i> , "Muscle Fibre Expression of Transforming Growth Factor-beta 1 and Latent Transforming Growth Factor-beta Binding Protein in Canine Masticatory Muscle Myositis," <i>J. Comp. Pathol.</i> 112(3):299-306, 1995.
	C111	Waltenberger, <i>et al.</i> , "Involvement of Transforming Growth Factor- β in the Formation of Fibrotic Lesions in Carcinoid Heart Disease," <i>American Journal of Pathology</i> , 142(1):71-8, 1993.
AR	C112	Waltenberger, <i>et al.</i> , "Induction of Transforming Growth Factor- β during Cardiac Allograft Rejection," <i>The Journal of Immunology</i> , 151(2):1147-57, 1993.

EXAMINER:

Daniel R. Rios

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8/11/2

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

List of Patents and Publications
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Disclosure Statement

(Use several sheets if necessary)

ATTY. DOCKET NO.
UMIC:013/PARSERIAL NO.
08/479,722APPLICANT
Jeffrey Bonadio and Wushan YinFILING DATE
June 7, 1995GROUP
UnknownPTO
09/592685
05/12/00

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A1	5,270,300	12/14/93	Hunziker	514	12	
	A2	5,208,219	05/04/93	Ogawa et al.	514	12	
	A3	5,187,076	02/16/93	Wozney et al.	435	69.1	
	A4	5,171,579	12/15/92	Ron et al.	424	486	
	A5	5,168,050	12/01/92	Hammonds, Jr., et al.	435	69.1	
	A6	5,166,058	11/24/92	Wang et al.	435	69.1	
	A7	5,118,667	06/02/92	Adams et al.	514	12	
AR	A8	5,116,738	05/26/92	Wang et al.	435	69.1	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AR	B1	WO 90/11092	10-04-90	PCT	—	—	

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AR	C1	Alper, "Boning Up: Newly Isolated Proteins Heal Bad Breaks", <i>Science</i> , 263:324-325, 1994					
	C2	Bandara, G., et al., "Gene Transfer to Synoviocytes: Prospects for Gene Treatment of Arthritis", <i>DNA and Cell Biology</i> , 11(3):227-231, 1992					
	C3	Beck, L. Steven, et al., "Rapid Publication TGF- β Induces Bone Closure of Skull Defects", <i>J. Bone Miner. Res.</i> , 6(11):1257-1265, 1991					
	C4	Boden, S.D., et al., "Estrogen Receptor mRNA Expression in Callus During Fracture Healing in the Rat", <i>Calcif Tissue Int</i> , 45:324-325, 1989					
	C5	Bonnarens and Einhorn, "Production of a Standard Closed Fracture in Laboratory Animal Bone", <i>J. Orthop. Res.</i> , 2:97-101, 1984					
	C6	Carrington, Jill L., et al., "Accumulation, Localization, and Compartmentation of Transforming Growth Factor β During Endochondral Bone Development", <i>J. Cell Biol.</i> , 107:1969-1975, 1988					
AR	C7	Centrella, Michael et al., "Skeletal Tissue and Transforming Growth Factor β ", <i>FASEB J.</i> , 2:3066-3073, 1988					

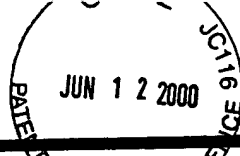
EXAMINER

Daniel Rove

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Form PTO-1449 (modified)

ATTORNEY DOCKET NO.
UMIC:015/PARSERIAL NO.
08/479,722List of Patents and Publications
For Applicant's Information
Disclosure StatementAPPLICANT
Jeffrey Bonadio and Wushan Yin

(Use several sheets if necessary)

FILING DATE
June 7, 1995GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A9	5,108,922	04/28/92	Wang et al.	435	240.2	
	A10	5,108,753	04/28/92	Kuberasampath et al.	424	422	
	A11	5,106,748	04/21/92	Wozney et al.	435	252.3	
	A12	5,013,649	05/07/91	Wang et al.	435	69.1	
	A13	5,011,691	04/30/91	Oppermann et al.	424	423	
	A14	4,975,527	12/04/90	Koezuka et al.	530	356	
	A15	4,975,526	12/04/90	Kuberasampath et al.	530	350	
	A16	4,968,590	11/06/90	Kuberasampath et al.	530	326	
AR	A17	4,877,864	10/31/89	Wang et al.	530	324	

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

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AR	C8	Chen, Theresa L., et al., "Bone Morphogenetic Protein-2b Stimulation of Growth and Osteogenic Phenotypes in Rat Osteoblast-like Cells: Comparison with TGF- β_1 ", <i>J. Bone Miner. Res.</i> , 6(12):1387-1393, 1991					
	C9	Cunningham, Noreen S., et al., "Osteogenin and Recombinant Bone Morphogenetic Protein 2B are Chemotactic for Human Monocytes and Stimulate Transforming Growth Factor β_1 mRNA Expression", <i>Proc. Natl. Acad. Sci. USA</i> , 89:11740-11744, 1992					
AR	C10	Gunasekaran, S., et al., "Mineralized Collagen as a Substitute for Autograft Bone that Can Deliver Bone Morphogenetic Protein", <i>The 19th Annual Meeting of the Society for Biomaterials</i> , p. 253, 1993					

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Form PTO-1449 (modified)ATTACHED SHEET NO.
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Unknown**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A18	4,795,804	01/03/89	Urist	530	350	
	A19	4,789,732	12/06/88	Urtist	530	350	
	A20	4,761,471	08/02/88	Urist	530	350	
PR	A21	4,619,989	10/38/86	Urist	530	417	

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OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

PR	C11	Gunasekaran, S., et al., "Role of Mineralized Collagen as an Osteoconductive Biomaterial", <i>The 19th Annual Meeting of the Society for Biomaterials</i> , p. 161, 1993					
	C12	Gunasekaran, S., et al., "Mineralization of Collagen Without Nucleating Proteins", 11:30 A.M. V7.5, p. 426					
	C13	Horowitz, Mark C., et al., "Functional and Molecular Changes in Colony Stimulating Factor Secretion by Osteoblasts", <i>Connective Tissue Research</i> , 20:159-168, 1989					
	C14	Huggins, C.B., et al., "Experiments on the Theory of Osteogenesis", <i>Arch. Surg.</i> , 32(6):915-931, 1936					
	C15	Izumi, Toshihiro, et al., "Transforming Growth Factor β_1 Stimulates Type II Collagen Expression in Cultured Periosteum-Derived Cells", <i>J. Bone Miner. Res.</i> , 7(1):115-121, 1992					
	C16	Jingushi, Seiya, et al., "Genetic Expression of Extracellular Matrix Proteins Correlates with Histologic Changes During Fracture Repair", <i>J. Bone Miner. Res.</i> , 7(9):1045-1055, 1992					
PR	C17	Jingushi, S., et al., "Acidic Fibroblast Growth Factor (aFGF) Injection Stimulates Cartilage Enlargement and Inhibits Cartilage Gene Expression in Rat Fracture Healing", <i>J. Orthop. Res.</i> , 8:364-371, 1990					

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A22	4,596,574	06/24/86	Urist	623	16	
	A23	4,563,489	01/07/86	Urist	524	21	
PR	A24	4,455,256	06/19/84	Urist	260	112R	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

PR	C18	Joyce, Michael E., et al., "Role of Growth Factors in Fracture Healing", <i>Clinical and Experimental Approaches to Dermal and Epidermal Repair: Normal and Chronic Wounds</i> , 391-416, 1991
	C19	Joyce, Michael E., et al., "Transforming Growth Factor- β and the Initiation of Chondrogenesis and Osteogenesis in the Rat Femur", <i>The J. Cell Biol.</i> , 110:2195-2207, 1990
	C20	Luyten, Frank P., et al., "Purification and Partial amino Acid Sequence of Osteogenin, a Protein Initiating Bone Differentiation", <i>J. Biol Chem.</i> , 264(23):13377-13380, 1989
	C21	O'Malley, Jr. and Ledley "Somatic Gene Therapy in Otolaryngology-Head and Neck Surgery", <i>Arch Otolaryngol Head Neck Surg</i> , 119:1191-1197, 1993
	C22	Ozkaynak, Engin, et al., "OP-1 cDNA Encodes an Osteogenic Protein in the TGF- β Family", <i>EMBO J.</i> , 9(7):2085-2093, 1990
	C23	Paralkar, Vishwas M., et al., "Identification and Characterization of Cellular Binding Proteins (Receptors) for Recombinant Human Bone Morphogenetic Protein 2B, an Initiator of Bone Differentiation Cascade", <i>Proc. Natl. Acad. Sci. USA</i> , 88:3397-3401, 1991
	C24	Roessier, Blake J., et al., "Adenoviral-mediated Gene Transfer to Rabbit Synovium In Vivo", <i>J. Clin. Invest.</i> , 92:1085-1092, 1993
PR	C25	Rosen, Vicki, et al., "Purification and Molecular Cloning of a Novel Group of BMPS and Localization of BMP mRNA in Developing Bone", <i>Connect. Tissue Res.</i> , 20:313-319, 1989

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AA	C26	Sampath, T.K., et al., "In Vitro Transformation of Mesenchymal Cells Derived From Embryonic Muscle into Cartilage in Response to Extracellular Matrix Components of Bone", <i>Proc. Natl. Acad. Sci. USA</i> , 81:3419-3423, 1984
	C27	Sampath and Reddi, "Dissociative Extraction and Reconstitution of Extracellular Matrix Components Involved in Local Bone Differentiation", <i>Proc. Natl. Acad. Sci. USA</i> , 78(12):7599-7603, 1981
	C28	Sandusky, G.E., Jr. et al., "Histologic Findings After In Vivo Placement of Small Intestine Submucosal Vascular Grafts and Saphenous Vein Grafts in the Carotid Artery in Dogs", <i>American Journal of Pathology</i> , 140(2):317-324, 1992
	C29	Shimell, Mary Jane, et al., "The Drosophila Dorsal-Ventral Patterning Gene <i>tolloid</i> is Related to Human Bone Morphogenetic Protein 1", <i>Cell</i> , 67:469-481, 1991
	C30	Srivastava, Carolyn H., et al., "Construction of a Recombinant Human Parvovirus B19: Adenoassociated Virus 2 (AAV) DNA Inverted Terminal Repeats are Functional in an AAV-B19 Hybrid Virus", <i>Proc. Natl. Acad. Sci. USA</i> , 86:8078-8082, 1989
	C31	Toriumi, Dean M., et al., "Mandibular Reconstruction With a Recombinant Bone-Inducing Factor", <i>Arch Otolaryngol Head Neck Surg</i> , 117:1101-1112, 1991
	C32	Ulmer, Jeffrey B., et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein", <i>Science</i> , 259:1745-1749, 1993
AA	C33	Urist, Marshall R., et al., "Bone Cell Differentiation Growth Factors", <i>Science</i> , 220:680-220, 1983

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OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AR	C34	Urist, Marshall R., "Bone: Formation by Autoinduction", <i>Science</i> , 150:893-899, 1965
	C35	Wang, Elizabeth A., et al., "Recombinant Human Bone Morphogenetic Protein Induces Bone Formation", <i>Proc. Natl. Acad. Sci. USA</i> , 87:2220-2224, 1990
	C36	Wilson, James M., et al., "Somatic Gene Transfer in the Development of an Animal Model for Primary Hyperparathyroidism", <i>Endocrinology</i> , 130(5):2947-2954, 1992
	C37	Wolff, Jon A., et al., "Direct Gene Transfer into Mouse Muscle In Vivo", <i>Science</i> , 247:1465-1468, 1990
	C38	Wozney, John M., et al., "Novel Regulators of Bone Formation: Molecular Clones and Activities", <i>Science</i> , 242:1528-1534, 1988
	C39	Yasko, Alan W., et al., "The Healing of Segmental Bone Defects, Induced by Recombinant Human Bone Morphogenetic Protein (rhBMP-2)", <i>The Journal of Bone and Joint Surgery</i> , 74-A(5):659-670, 1992
	C40	Agarwala, Neena, et al., "Specific Binding of Parathyroid Hormone to Living Osteoclasts", <i>Journal of Bone and Mineral Research</i> , 7:531-539, 1992
	C41	Bonadio et al., "Transgenic mouse model of the mild dominant form of osteogenesis imperfecta," <i>Proc. Natl. Acad. Sci. USA</i> , 87:7145-7149, 1990
AR	C42	Davidson et al., "A model system for in vivo gene transfer into the central nervous system using an adenoviral vector," <i>Nature Genetics</i> , 3:219-223, 1993

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OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

AR	C43	Falcone et al., "Macrophage and Foam Cell Release of Matrix-bound Growth Factors," <i>The Journal of Biological Chemistry</i> , 268(15):11951-11958, 1993
	C44	Flaumenhaft et al., "Role of the Latent TGF- β Binding Protein in the Activation of Latent TGF- β by Co-Cultures of Endothelial and Smooth Muscle Cells," <i>The Journal of Cell Biology</i> , 120(4):995-1002, 1993
	C45	Majmudar et al., "Bone Cell Culture in a Three-Dimensional Polymer Bead Stabilizes the Differentiated Phenotype and Provides Evidence That Osteoblastic Cells Synthesize Type III Collagen and Fibronectin," <i>Journal of Bone and Mineral Research</i> , 6(8):869-881, 1991
	C46	Miyazono et al., "Retention of the Transforming Growth Factor- β 1 Precursor in the Golgi Complex in a Latent Endoglycosidase H-sensitive Form," <i>The Journal of Biological Chemistry</i> , 267(8):5668-5675, 1992
	C47	Pereira et al., "Genomic organization of the sequence coding for fibrillin, the defective gene product in Marfan syndrome," <i>Human Molecular Genetics</i> , 2(7):961-968, 1993
	C48	Seitz et al., "Effect of Transforming Growth Factor β on Parathyroid Hormone Receptor Binding and cAMP Formation in Rat Osteosarcoma Cells," <i>Journal of Bone and Mineral Research</i> , 7:541-546, 1992
	C49	Selander-Sunnerhagen et al., "How an Epidermal Growth Factor (EGF)-like Domain Binds Calcium," <i>The Journal of Biological Chemistry</i> , 267(27):19642-19649, 1992
AR	C50	Steiner et al., "The New Enzymology of Precursor Processing Endoproteases," <i>The Journal of Biological Chemistry</i> , 267(33):23435-23438, 1992

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Information Disclosure Statement--PTO-1449 (Modified)

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08/479,722List of Patents and Publications
For Applicant's Information
Disclosure StatementAPPLICANT
Jeffrey Bonadio and Wushan Yin

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FILING DATE
June 7, 1995GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A25	5,229,495	07/20/93	Ichijo et al.			
	A26	5,280,109	01/18/94	Miyazono et al.			
PR	A27	5,346,993	09/13/94	Miyazono et al.			

FOREIGN PATENT DOCUMENTS

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OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

PR	C51	Stratford-Perricaudet et al., "Widespread Long-term Gene Transfer to Mouse Skeletal Muscles and Heart," <i>J. Clin. Invest.</i> , 90:626-630, 1992					
	C52	Benezra et al., "Thrombin-Induced Release of Active Basic Fibroblast Growth Factor-Heparan Sulfate Complexes from Subendothelial Extracellular Matrix," <i>Blood</i> , 81(12):3324-3331, June, 1993.					
	C53	Colosetti et al., "Ca ²⁺ binding of latent transforming growth factor- β 1 binding protein," <i>FEBS</i> , 320(2):140-144, April, 1993.					
	C54	Falcone et al., "Macrophage and Foam Cell Release of Matrix-bound Growth Factors," <i>The Journal of Biological Chemistry</i> , 268(16):11951-11958, June, 1993.					
	C55	Flaumenhaft et al., "Role of the Latent TGF- β Binding Protein in the Activation of Latent TGF- β by Co-Cultures of Endothelial and Smooth Muscle Cells," <i>The Journal of Cell Biology</i> , 120(4):995-1002, February, 1993.					
	C56	Kanzaki et al., "TGF- β 1 Binding Protein: A Component of the Large Latent Complex of TGF- β 1 with Multiple Repeat Sequences," <i>Cell</i> , 61:1051-1061, June, 1990.					
PR	C57	Miyazono et al., "Latent High Molecular Weight Complex of Transforming Growth Factor β 1," <i>The Journal of Biological Chemistry</i> , 263(13):6407-6415, May, 1988.					

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Daniel Rowe

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PR	C58	Miyazono et al., "A role of the latent TGF- β 1-binding protein in the assembly and secretion of TGF- β 1," <i>The EMBO Journal</i> , 10(5):1091-1101, 1991.
	C59	Miyazono et al., "Retention of the Transforming Growth Factor- β 1 Precursor in the Golgi Complex in a Latent Endoglycosidase H-sensitive Form," <i>The Journal of Biological Chemistry</i> , 267(8):5668-5675, March, 1992.
	C60	Morén et al., "Identification and Characterization of LTBP-2, a Novel Latent Transforming Growth Factor- β -binding Protein," <i>The Journal of Biological Chemistry</i> , 269(51):32469-32478, December, 1994.
	C61	Olofsson et al., "Transforming Growth Factor- β 1, - β 2, and - β 3 Secreted by a Human Glioblastoma Cell Line," <i>The Journal of Biological Chemistry</i> , 267(27):19482-19488, September, 1992.
	C62	Taketazu et al., "Enhanced Expression of Transforming Growth Factor- β s and Transforming Growth Factor- β Type II Receptor in the Synovial Tissues of Patients with Rheumatoid Arthritis," <i>Laboratory Investigation</i> , 70(5):620-630, 1994.
	C63	Taipale et al., "Latent Transforming Growth Factor- β 1 Associates to Fibroblast Extracellular Matrix via Latent TGF- β Binding Protein," <i>The Journal of Cell Biology</i> , 124(1 & 2):171-181, January, 1994.
PR	C64	Tsuji et al., "Molecular cloning of the large subunit of transforming growth factor type β masking protein and expression of the mRNA in various rat tissues," <i>Proc. Natl. Acad. Sci. USA</i> , 87:8835-8839, November, 1990.

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PA	C65	Wakefield et al., "Latent Transforming Growth Factor- β from Human Platelets," <i>The Journal of Biological Chemistry</i> , 263(16):7646-7654, June, 1988.
AR	C66	Yin et al., "Isolation of a Novel Latent Transforming Growth Factor- β Binding Protein Gene (LTBP-3)," <i>The Journal of Biological Chemistry</i> , 270(17):10147-10160, April, 1995.

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B2	DE 42 19 626 A1	Dec. 23, 1993	Germany	—	—	
	B3	WO 92/05199	April 2, 1992	PCT	—	—	
	B4	WO 93/05751	April 1, 1993	PCT	—	—	
PR	B5	WO 94/01139	Jan. 20, 1994	PCT	—	—	

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PR	C67	Rosen and Thies, "The BMP proteins in bone formation and repair," Trends in Genetics, 8(3):97-102, March, 1992.
PR	C68	International Search Report dated September 15, 1995

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U.S. PATENT DOCUMENTS

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PR	A28	5,317,010	05/31/94	Pang <i>et al.</i>	514	12	
	A29	5,208,041	05/04/93	Sindrey	424	562	
	A30	5,171,670	12/15/92	Kronenberg <i>et al.</i>	435	68.1	
	A31	5,164,368	11/17/92	Recker	514	12	
	A32	4,833,125	05/23/89	Neer <i>et al.</i>	514	12	
PR	A33	4,806,523	02/21/89	Bentz <i>et al.</i>	514	2	

FOREIGN PATENT DOCUMENTS

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PR	B2	DE 42 19 626 A1	12/23/93	Germany	—	—	
	B6	WO 94/20615	09/15/94	PCT	—	—	
PR	B7	WO 93/15109	08/05/93	PCT	—	—	

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PR	C69	Badylak <i>et al.</i> , "Directed Connective Tissue Remodeling Upon a Biologic Collagen Substrate," <i>J. Cell Biochem. Supplement 16F</i> , p. 124, April 3-16, 1992.
	C70	Benevisty and Reshef, "Direct introduction of genes into rats and expression of the genes," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9551-9555, December 1986.
	C71	Bonadio and Goldstein, "Direct Gene Transfer into Skeletal Tissues <i>In Vivo</i> ," <u>Gene Therapy Meeting: Cold Spring Harbor</u> , Conference Abstract, September 21-25, 1994.
	C72	Edelman <i>et al.</i> , "c-myc in Vasculoproliferative Disease," <i>Circulation Research</i> , 76(2):1.2-1.8, February, 1995.
PR	C73	Evans and Robbins, "Possible Orthopaedic Applications of Gene Therapy," <i>The Journal of Bone and Joint Surgery</i> , 77-A(7):1103-1114, July, 1995.

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PR	A34	5,366,875	11/22/94	Wozney <i>et al.</i>	435	69.1	
	A35	5,354,557	10/11/94	Oppermann <i>et al.</i>	424	423	
	A36	5,344,654	09/06/94	Rueger <i>et al.</i>	424	423	
	A37	5,324,819	06/28/94	Oppermann <i>et al.</i>	530	350	
	A38	5,266,683	11/30/93	Oppermann <i>et al.</i>	530	326	
	A39	5,258,494	11/02/93	Oppermann <i>et al.</i>	530	326	
PR	A40	5,250,302	10/05/93	Oppermann <i>et al.</i>	424	422	

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B8	0 614 974 A2	09/14/94	Europe			
	B9	WO 93/09229	05/13/93	PCT			
PR	B10	WO 90/03733	04/19/90	PCT			

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PR	C74	Indolfi <i>et al.</i> , "Inhibition of cellular <i>ras</i> prevents smooth muscle cell proliferation after vascular injury <i>in vivo</i> ," <i>Nature Medicine</i> , 1(6):541-545, June, 1995.
	C75	Invention Disclosure entitled "Small Intestinal Submucosa as Biomaterial to Promote Gene Transfer," Stephen G. Badylak, Jeffrey Bonadio and Sherry L. Voytik, September 4, 1992.
	C76	Kaneda <i>et al.</i> , "Increased Expression of DNA Cointroduced with Nuclear Protein in Adult Rat Liver," <i>Science</i> , 243:375-378, January, 1989.
	C77	Mannino and Gould-Fogerite, "Liposome Mediated Gene Transfer," <i>BioTechniques</i> , 6(7):682-690, 1988.
PR	C78	Mumper <i>et al.</i> , "Interactive Polymeric Gene Delivery Systems for Enhanced Muscle Expression," <i>Abstract</i> , American Assoc. of Pharmaceutical Science, Miami Beach, FL, November 6-9, 1995.

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U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
PR	A41	5,182,365	01/26/93	Kuberasampath <i>et al.</i>			
	A42	5,141,905	08/25/92	Rosen <i>et al.</i>	435	69.1	
	A43	5,106,626	04/21/92	Parsons <i>et al.</i>	424	423	
	A44	5,328,955	07/12/94	Rhee <i>et al.</i>	525	54.1	
	A45	5,326,357	07/05/94	Kandel	623	16	
	A46	5,326,350	07/05/94	Li	623	11	
PR	A47	5,308,889	05/03/94	Rhee <i>et al.</i>	523	113	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
PR	B11	WO 93/16739	09/02/93	PCT	—	—	
	B12	WO 93/14778	08/05/93	PCT	—	—	
PR	B13	WO 92/07573	05/14/92	PCT	—	—	

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

PR	C79	Nicolau <i>et al.</i> , "In vivo expression of rat insulin after intravenous administration of the liposome-entrapped gene for rat insulin I," <i>Proc. Natl. Acad. Sci. USA</i> , 80:1068-1072, February, 1983.
	C80	Simons <i>et al.</i> , "Antisense c-myc oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo," <i>Nature</i> , 359:67-70, September, 1992.
	C81	Sumner <i>et al.</i> , "Enhancement of Bone Ingrowth by Transforming Growth Factor- β ," <i>The Journal of Bone and Joint Surgery</i> , 77-A(8):1135-1147, August, 1995.
	C82	Wolff <i>et al.</i> , "Conditions Affecting Direct Gene Transfer into Rodent Muscle In Vivo," <i>BioTechniques</i> , 11(4): 474-485, 1991.
PR	C83	Wolff <i>et al.</i> , "Expression of naked plasmids by cultured myotubes and entry of plasmids into T tubules and caveolae of mammalian skeletal muscle," <i>Journal of Cell Science</i> , 103:1249-1259, 1992.

EXAMINER

David Rocco

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UMIC-0134 PAR

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U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A48	5,292,802	03/08/94	Rhee <i>et al.</i>	525	54.1	
	A49	5,273,964	12/28/93	Lemons	514	2	
	A50	5,206,028	04/27/93	Li	424	484	
	A51	5,197,977	03/30/93	Hoffman, Jr. <i>et al.</i>	623	1	
AR	A52	5,196,185	03/23/93	Silver <i>et al.</i>	424	45	

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
AR	B14	WO 91/17424	11/14/91	PCT	—	—	
AR	B15	WO 90/14074	11/29/90	PCT	—	—	

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AR	C84	Wu and Wu, "Receptor-mediated Gene Delivery and Expression <i>in Vivo</i> ," <i>The Journal of Biological Chemistry</i> , 263(29):14621-14624, 1988.
	C85	Yin <i>et al.</i> , "Molecular Cloning of a Novel Fibrillin-Like cDNA: Expression in Callus Tissue as Alternatively Spliced Transcripts," <i>40th Annual Meeting, Orthopaedic Research Society</i> , Conference Abstract, February 21-24, 1994.
	C86	Zhu <i>et al.</i> , "Direct Gene Transfer into Regenerating Achilles' Tendon," <i>40th Annual Meeting, Orthopaedic Research Society</i> , Conference Abstract, February 21-24, 1994.
	C87	U.S. Patent Application Serial No. 08/176,565; filed 01/03/94; entitled "Fluidized Intestinal Submucosa and its Use as an Injectable Tissue Graft".
	C88	U.S. Patent Application Serial No. 08/343,204; filed 11/22/94; entitled "Fluidized Intestinal Submucosa and its Use as an Injectable Tissue Graft".
AR	C89	U.S. Patent Application Serial No. 08/390,700; filed 02/17/95; entitled "Compositions and Method for Production of Transformed Cells".

EXAMINER

Donald R. Rouse

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AR	A53	5,171,574	12/15/92	Kuberasampath <i>et al.</i>	424	423	
	A54	5,162,430	11/10/92	Rhee <i>et al.</i>	525	54.1	
	A55	5,162,114	11/10/92	Kuberasampath <i>et al.</i>	424	423	
	A56	5,128,136	07/07/92	Bentley <i>et al.</i>	424	443	
	A57	5,124,155	06/23/92	Reich	424	428	
	A58	5,037,749	08/06/91	Findlay	435	176	
	A59	5,120,322	06/09/92	Davis <i>et al.</i>	604	265	
	A60	5,110,604	05/05/92	Chu <i>et al.</i>	424	484	
	A61	5,103,840	04/14/92	Kavoussi	128	899	
	A62	5,081,106	01/14/92	Bentley <i>et al.</i>	514	5	
	A63	5,059,123	10/22/91	Jernberg	433	215	
	A64	5,035,893	07/30/91	Shioya <i>et al.</i>	424	447	
	A65	5,001,169	03/19/91	Nathan <i>et al.</i>	523	113	
AR	A66	4,957,902	09/18/90	Grinnell	514	17	

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AR	C90	U.S. Patent Application Serial No. 08/386,432; filed 02/10/95; entitled "Bone Graft Composition".					
AR	C91	U.S. Patent Application Serial No. 08/386,452; filed 02/10/95; entitled "Submucosa as a Growth Substrate for Cells."					

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PR	A67	4,946,450	08/07/90	Erwin	604	294	
	A68	4,882,150	11/21/89	Kaufman	424	428	
	A69	4,865,846	09/12/89	Kaufman	424	428	
	A70	4,837,285	06/06/89	Berg <i>et al.</i>	530	356	
	A71	4,798,786	01/17/89	Tice <i>et al.</i>	435	177	
	A72	4,789,663	12/06/88	Wallace <i>et al.</i>	514	21	
	A73	4,776,890	10/11/88	Chu	106	161	
	A74	4,711,783	12/08/87	Huc <i>et al.</i>	424	460	
	A75	4,703,108	10/27/87	Silver <i>et al.</i>	530	356	
	A76	4,591,501	05/27/86	Cioca	424	28	
	A77	4,585,797	04/29/86	Cioca	514	773	
	A78	4,563,350	01/07/86	Nathan <i>et al.</i>	424	95	
	A79	4,538,603	09/03/85	Pawelchak <i>et al.</i>	128	156	
	A80	4,472,840	09/25/84	Jefferies	3	1.9	
PR	A81	4,409,332	10/11/83	Jefferies <i>et al.</i>	435	188	

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PR	C92	Zhang <i>et al.</i> , "Structure and Expression of Filbrillin-2, A Novel Microfibrillar Component Preferentially Located in Elastic Matrices", <i>The Journal of Cell Biology</i> , 124:855-863, 1994					
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AR	A82	4,390,519	06/28/83	Sawyer	424	28	
	A83	4,347,234	08/31/82	Wahlig <i>et al.</i>	424	15	
	A84	5,366,734	11/22/94	Hutchinson	424	426	
	A85	5,366,733	11/22/94	Brizzolara <i>et al.</i>	424	426	
	A86	5,366,508	11/22/94	Brekke	623	16	
	A87	5,360,610	11/01/94	Tice <i>et al.</i>	424	426	
	A88	5,350,580	09/27/94	Muchow <i>et al.</i>	424	437	
	A89	5,324,520	06/28/94	Dunn <i>et al.</i>	424	435	
	A90	5,324,519	06/28/94	Dunn <i>et al.</i>	424	426	
	A91	5,324,307	06/28/94	Jarrett <i>et al.</i>	606	219	
	A92	5,320,624	06/14/94	Kaplan <i>et al.</i>	606	77	
	A93	5,308,623	05/03/94	Fues <i>et al.</i>	424	426	
	A94	5,288,496	02/22/94	Lewis	424	426	
	A95	5,281,419	01/25/94	Tuan <i>et al.</i>	424	426	
AR	A96	5,278,202	01/11/94	Dunn <i>et al.</i>	523	113	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

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EXAMINER

James R. Rennie

DATE CONSIDERED

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Information Disclosure Statement--PTO-1449 (Modified)

Form PTO-1449 (modified)

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 A. D. DOCKED NO.
 UMIC. 08/479,722
SERIAL NO.
08/479,722List of Patents and Publications
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Disclosure StatementAPPLICANT
Jeffrey Bonadio and Wushan Yin

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June 7, 1995GROUP
1804

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A97	5,278,201	01/11/94	Dunn <i>et al.</i>	523	113	
	A98	5,271,961	12/21/93	Mathiowitz <i>et al.</i>	427	213.31	
	A99	5,268,178	12/07/93	Calhoun <i>et al.</i>	424	426	
	A100	5,250,584	10/05/93	Ikada <i>et al.</i>	523	114	
	A101	5,227,157	07/13/93	McGinity <i>et al.</i>	424	78.02	
	A102	5,192,741	03/09/93	Orsolini <i>et al.</i>	514	4	
	A103	5,185,152	02/09/93	Peyman	424	427	
	A104	5,171,217	12/15/92	March <i>et al.</i>	604	53	
	A105	5,143,730	09/01/92	Fues <i>et al.</i>	424	426	
	A106	5,133,755	07/28/92	Brekke	623	16	
	A107	5,108,755	04/28/92	Daniels <i>et al.</i>	424	426	
	A108	5,084,051	01/28/92	Törmälä <i>et al.</i> 70[45]	606	77	
	A109	5,080,665	01/14/92	Jarrett <i>et al.</i>	606	219	
	A110	5,077,049	12/31/91	Dunn <i>et al.</i>	424	426	
AR	A111	5,051,272	09/24/91	Hermes <i>et al.</i>	427	2	

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EXAMINER	David Rowe	DATE CONSIDERED	8/11/2
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Information Disclosure Statement--PTO-1449 (Modified)

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U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A112	5,011,692	04/30/91	Fujioka <i>et al.</i>	424	426	
	A113	5,007,939	04/16/91	Delcommune <i>et al.</i>	623	66	
	A114	5,004,602	04/02/91	Hutchinson	424	78	
	A115	4,961,707	10/09/90	Magnusson <i>et al.</i>	433	215	
	A116	4,938,763	07/03/90	Dunn <i>et al.</i>	604	891.1	
	A117	4,916,193	04/10/90	Tang <i>et al.</i>	525	413	
	A118	4,898,734	02/06/90	Mathiowitz <i>et al.</i>	424	426	
	A119	4,898,186	02/06/90	Ikada <i>et al.</i>	606	62	
	A120	4,889,119	12/26/89	Jamiolkowski <i>et al.</i>	606	220	
	A121	4,844,854	07/04/89	Kaplan <i>et al.</i>	264	235	
	A122	4,839,130	06/13/89	Kaplan <i>et al.</i>	264	235	
	A123	4,818,542	04/04/89	DeLuca <i>et al.</i>	424	491	
	A124	4,744,365	05/17/88	Kaplan <i>et al.</i>	128	335.5	
	A125	4,741,337	05/03/88	Smith <i>et al.</i>	128	334 R	
AR	A126	4,623,588	11/18/86	Nuwayser <i>et al.</i>	428	402.24	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

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EXAMINER	James R. Jones	DATE CONSIDERED	5/11/92
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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
4R	A127	4,578,384	03/25/86	Hollinger	514	8	
	A128	4,568,559	02/04/86	Nuwayser <i>et al.</i>	427	3	
	A129	4,539,981	09/10/85	Tunc	128	92 B	
	A130	4,530,449	11/05/85	Tunc	623	16	
	A131	4,384,975	05/24/83	Fong	427	213.36	
	A132	4,300,565	11/17/81	Rosensaft <i>et al.</i>	128	335.5	
	A133	4,279,249	07/21/81	Vert <i>et al.</i>	128	92 D	
	A134	4,243,775	01/06/81	Rosensaft <i>et al.</i>	525	415	
	A135	4,181,983	01/08/80	Kulkarni	3	1	
	A136	4,166,800	09/04/79	Fong	252	316	
	A137	4,137,921	02/06/79	Okuzumi <i>et al.</i>	128	335.5	
	A138	5,445,833	08/29/95	Badylak <i>et al.</i>	424	551	
	A139	5,372,821	12/13/94	Badylak <i>et al.</i>	424	551	
	A140	5,352,463	10/04/94	Badylak <i>et al.</i>	424	551	
4R	A141	5,281,422	01/25/94	Badylak <i>et al.</i>	424	551	

FOREIGN PATENT DOCUMENTS

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Amel Roman

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1804**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AR	A142	5,275,826	01/04/94	Badylak <i>et al.</i>	424	551	
	A143	4,956,178	09/11/90	Badylak <i>et al.</i>	424	551	
	A144	4,902,508	02/20/90	Badylak <i>et al.</i>	424	95	
	A145	5,306,303	04/26/94	Lynch	623	16	
	A146	5,263,985	11/23/93	Bao <i>et al.</i>	623	16	
	A147	4,988,358	01/29/91	Eppley <i>et al.</i>	623	16	
	A148	5,128,326	07/07/92	Balazs <i>et al.</i>	514	54	
	A149	4,952,402	08/28/90	Sparks <i>et al.</i>	424	419	
	A150	5,137,669	08/11/92	Leonard <i>et al.</i>	264	120	
	A151	5,039,660	08/13/91	Leonard <i>et al.</i>	514	8	
	A152	5,286,634	02/15/94	Stadler <i>et al.</i>	435	172.3	
	A153	5,264,618	11/23/93	Felgner <i>et al.</i>	560	224	
SPR	A154	5,223,263	062993	Hostetler <i>et al.</i>	424	450	

FOREIGN PATENT DOCUMENTS

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EXAMINER

Samuel R. Jones

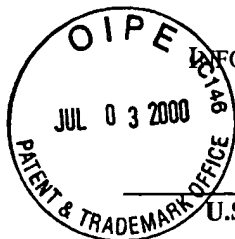
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Information Disclosure Statement--PTO-1449 (Modified)

Form PTO-1449 (modified)		Atty. Docket No. 4100.000582	Serial No. 09/592,685
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Jeffrey Bonadio and Wushan Yin	
		Filing Date: June 12, 2000	Group: 1646
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page</i>	Other Art <i>See Page</i>	



U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
AR	A155	6,074,840	June 13, 2000	Bonadio <i>et al.</i>	435	69.1	

Foreign Patent Documents

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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